

Claims

1. Digital watch, comprising a digital display, said display comprising a first line of alphanumeric characters and a second line of alphanumeric characters, said watch further comprising control means for
5 keeping and displaying the current time on said digital display and an interface device sensitive to axial pressure and to rotation around its axis and connected to said control means.
2. Digital watch according to the claim 1, wherein said control
10 means are arranged to supply a plurality of functions and wherein the current time is always displayed on said first line of alphanumeric characters and the indications relative to said functions are optionally displayed on said second line of alphanumeric characters.
3. Digital watch according to claim 1, wherein said interface
15 device is a roller fastened on the face side of said watch, so as to be capable of turning around its axis, said roller having at least one sector of its lateral surface accessible for allowing a rotation to be communicated with a finger tip, said roller having an extremity accessible for allowing an axial pressure to be exerted with a finger tip.
4. Digital watch according to claim 2, wherein said functions
20 comprise a standard display mode and at least one additional mode from among: calendar, alarm, countdown, second time zone and chronograph.
5. Digital watch according to claim 4, comprising at least one
25 time zone function for keeping and displaying the time of an auxiliary time zone and the time of a main time zone, wherein said time zone function comprises a second display option wherein said time of an auxiliary time zone is displayed on said first line of alphanumeric characters and said time of a main time zone is displayed on said second line of alphanumeric characters.

6. Digital watch according to claim 5, comprising an alarm function, wherein the alarm is triggered according to said time of a main time zone when said second display zone is inactive and the alarm is triggered according to said time of an auxiliary time zone when said second display option is active.

7. Digital watch according to claim 1, wherein said control means are capable of discriminating between a short pressure and a prolonged pressure on said interface device.

8. Digital watch according to claim 2, wherein all the parameter definitions and the function selection are performed only by rotation and pressure of said interface device.

9. Method of management and control of a watch according to claim 2, comprising the steps of:
reacting to the rotation of said interface device by selecting in a cyclical fashion an operating mode from among a set of operating modes, each of said operating modes corresponding to one of said functions supplied by the control module;
displaying the indications relative to the function corresponding to the selected operating mode on said second line of alphanumeric characters.

10. Method according to claim 9, wherein at least one of said operating modes comprises a subsidiary definition mode and reacts to pressure exerted on said interface device by activating said subsidiary definition mode.

11. Method according to claim 10, wherein said at least one operating mode comprising a subsidiary definition mode reacts to a prolonged pressure exerted on said interface device by activating said subsidiary definition mode.

12. Method according to claim 9, wherein at least one of said operating modes is adapted for keeping and displaying the time of an auxiliary time zone and the time of a main time zone and reacts to pressure exerted on said interface device by activating a second display option, in
5 which said time of an auxiliary time zone is displayed on said first line of alphanumeric characters and said time of a main time zone is displayed on said second line of alphanumeric characters.

13. Method according to claim 12, wherein one of said operating modes is an alarm mode for triggering an acoustic signal at a
10 predetermined alarm time, wherein said signal is triggered according to said time of a main time zone when said second display option is inactive and said signal is triggered according to said time of an auxiliary time zone when said second display option is active.

14. Computer program product, capable of being loaded in the
15 memory of a digital processor, comprising software portions for performing the method of claims 9 to 11 when it is executed on said digital processor.

15. Digital watch according to claim 1, wherein said display can also display graphical symbols.